

Fig. 1A

SUS1	SEQ ID NO: 1	<u>ENGILRKWI</u> SRFDVWPYL	native
SUS2	SEQ ID NO: 3	<u>ENGIVRKWI</u> SRFEVWPYL	native
SS2	SEQ ID NO: 10	<u>GIVRKWI</u> SRFEVWPYLKK	active
SS11	SEQ ID NO: 11	<u>ILRVPFRTENGIVRKWI</u> _(NH2)	inactive
SS12	SEQ ID NO: 12	<u>GIVRKWI</u> SRFEVWPYL _(NH2)	active
SS15	SEQ ID NO: 13	<u>GIVRKAI</u> SRFEVAPYL _(NH2)	less active
SS16	SEQ ID NO: 14	<u>SRFEVWPYL</u> _(NH2)	less active
SP3	SEQ ID NO: 18	^N <u>RRRISSVE</u> ^N ^N <u>DKK</u> _(NH2)	inactive
NR11	SEQ ID NO: 15	GPTLK <u>R</u> FASTAFMNTTS <u>KK</u>	inactive
SP26	SEQ ID NO: 16	<u>GRMRRIATVEMM</u> <u>KK</u>	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	<u>EHGIVTNWDDMEKIWHHTFY</u>	consensus

Double basic cluster: black box; e.g. KK

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

EN	GIVRK	WI	SRFEVW	PYL	KK
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X_4 X_3 X_2 X_1 X_5 X_6

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	SRFEVW
SEQ ID NO:17	X_2-X_1	WISRFEVW
SEQ ID NO:14	X_1-X_5	SRFEVWPYL
SEQ ID NO:23	$X_2-X_1-X_5$	WISRFEVWPYL
SEQ ID NO:12	$X_2-X_1-X_5$	GIVRKWISRFEVWPYL
SEQ ID NO:10	$X_3-X_2-X_1-X_5$	GIVRKWISRFEVWPYLKK
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	ENGIVRKWISRFEVWPYLKK

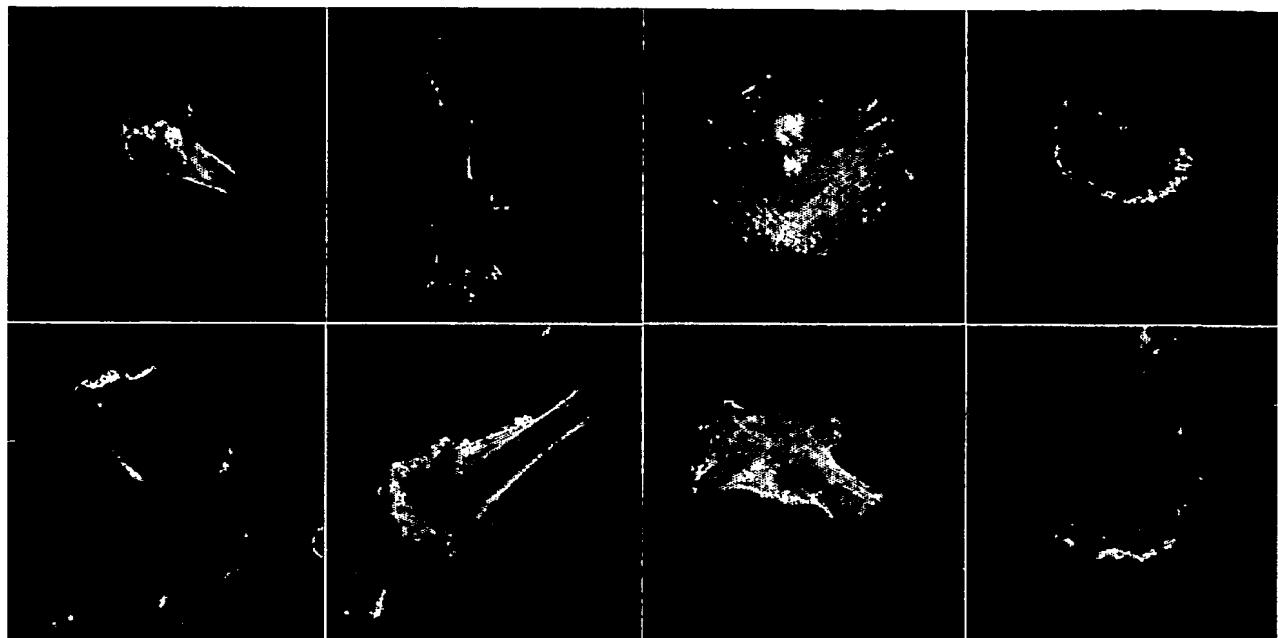
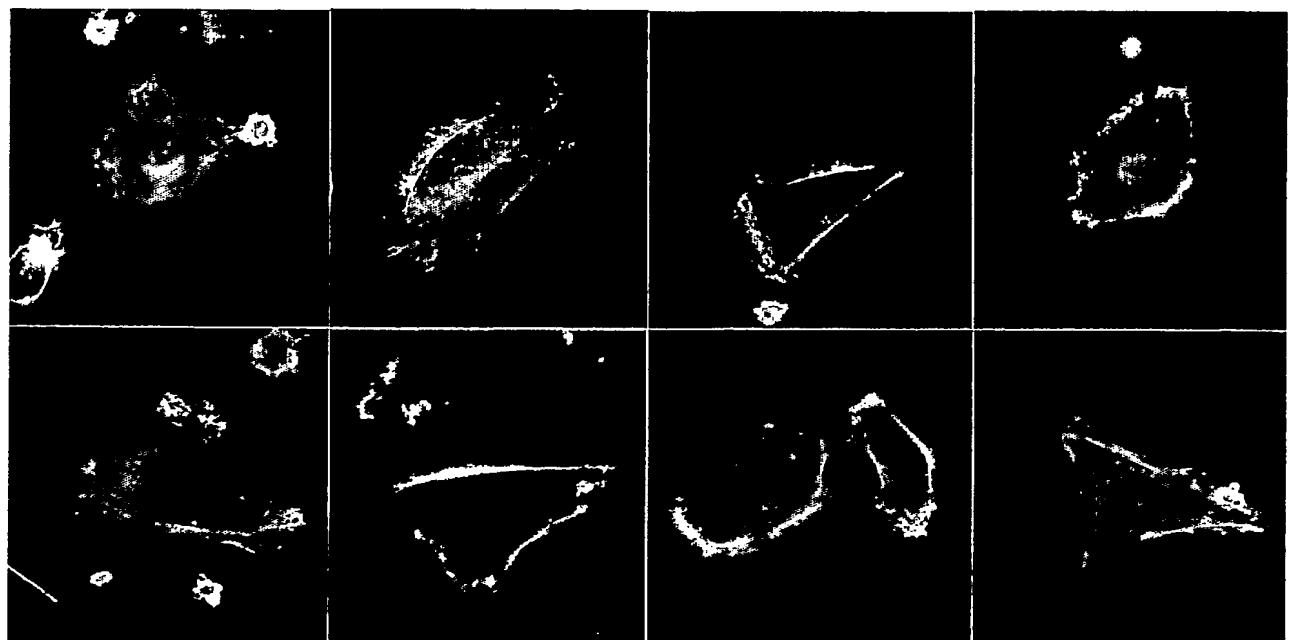
Fig. 2**A****B**

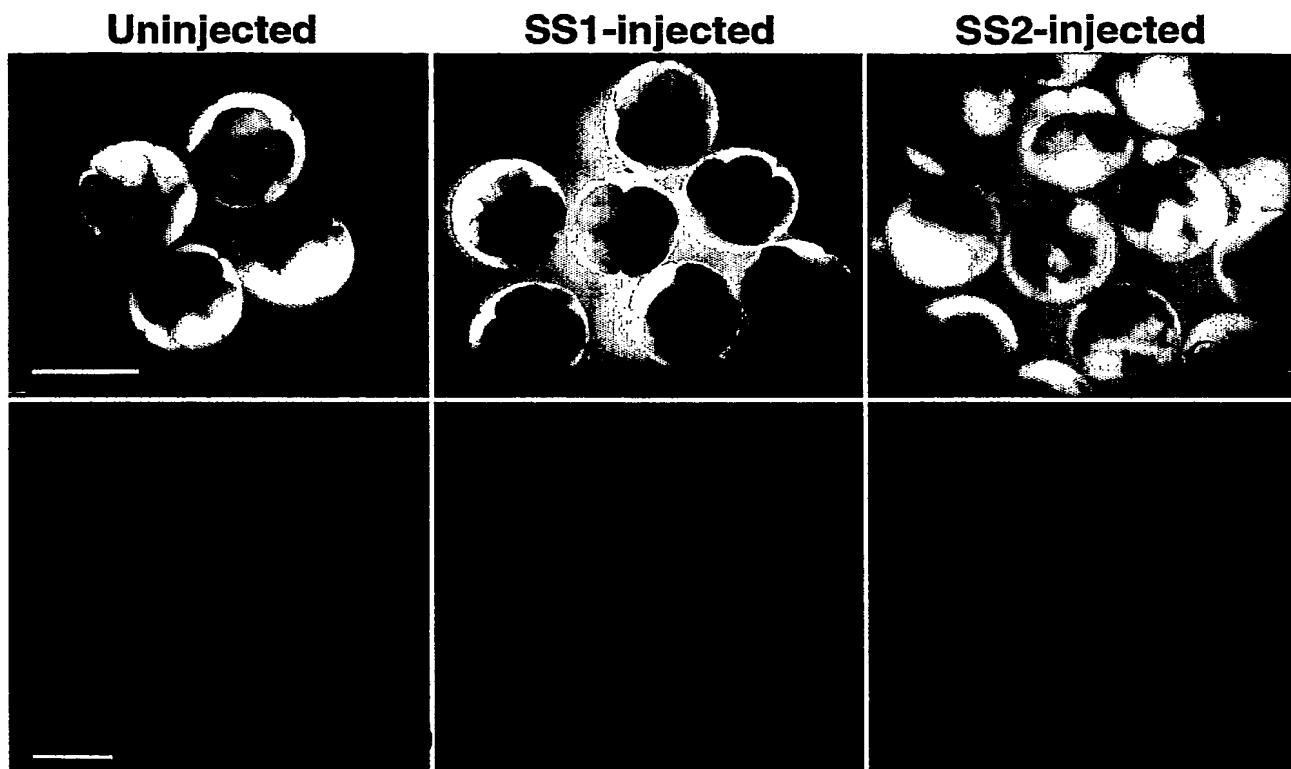
Fig. 3

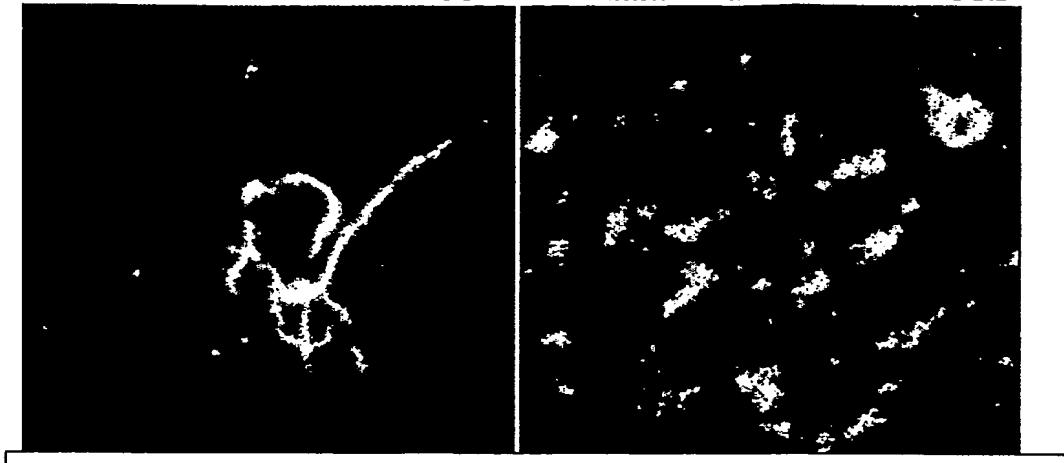
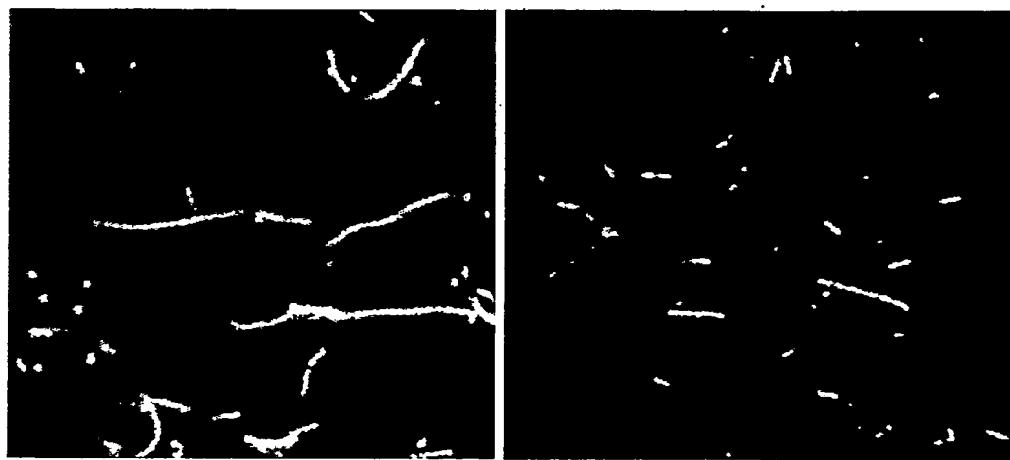
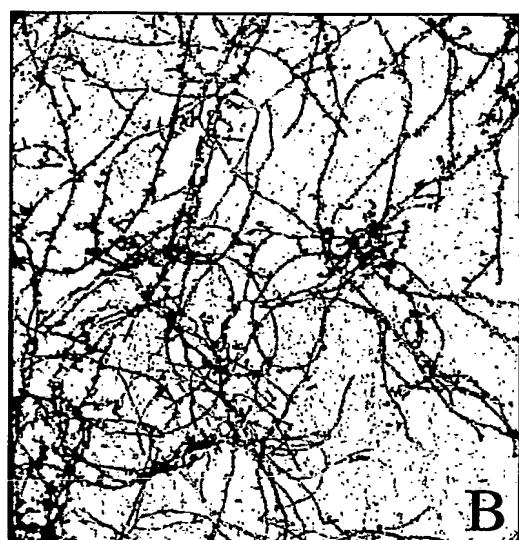
Fig. 4**Xenopus cytoplasmic extracts****Rhodamine-actin + PMA - SS2 Rhodamine-actin + PMA + SS2****Rhodamine-actin + PMA - SS12****Rhodamine-actin + PMA + SS12**

Fig. 5

control



SS12



A

B

C

D

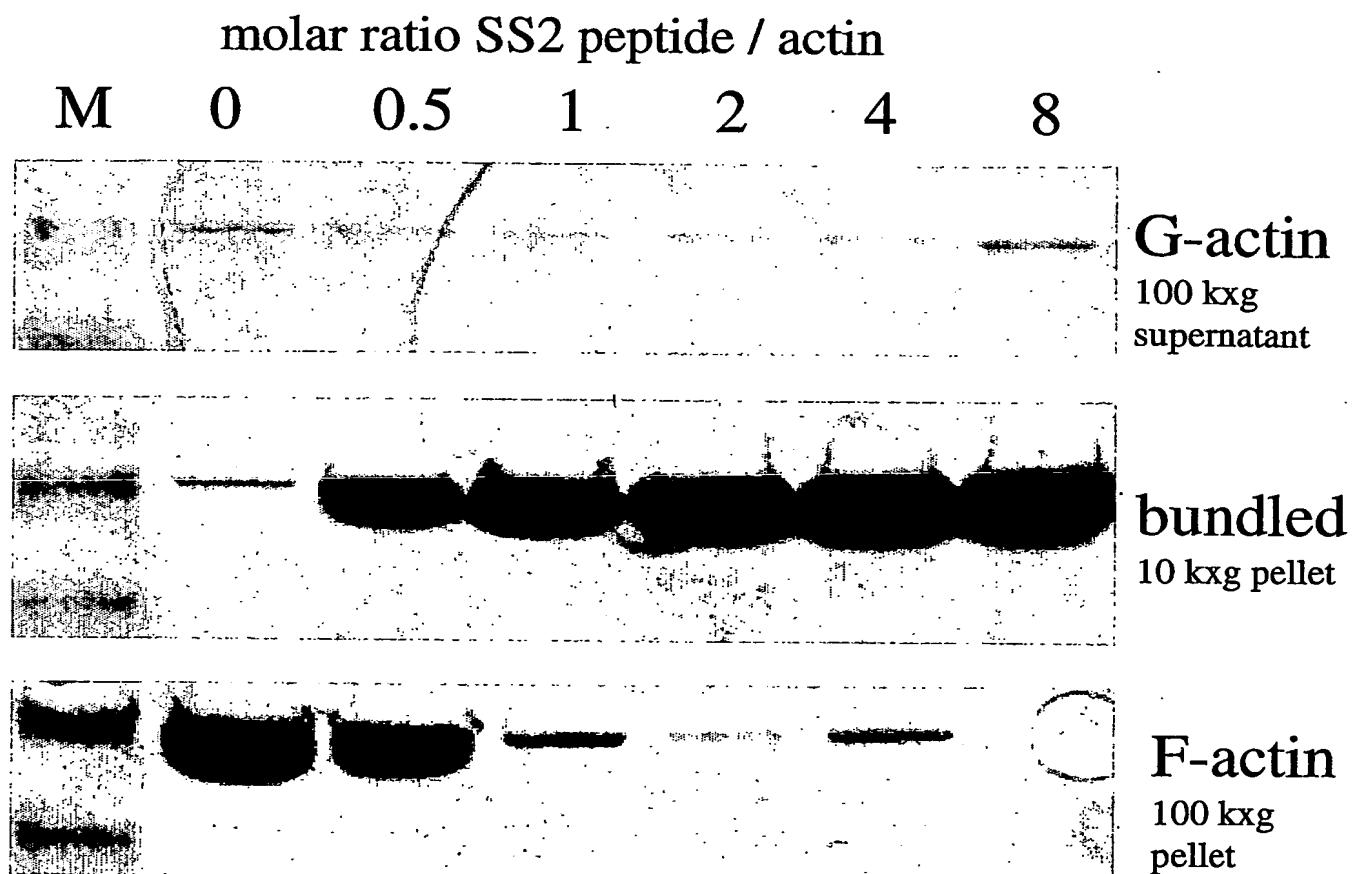
Fig. 6A

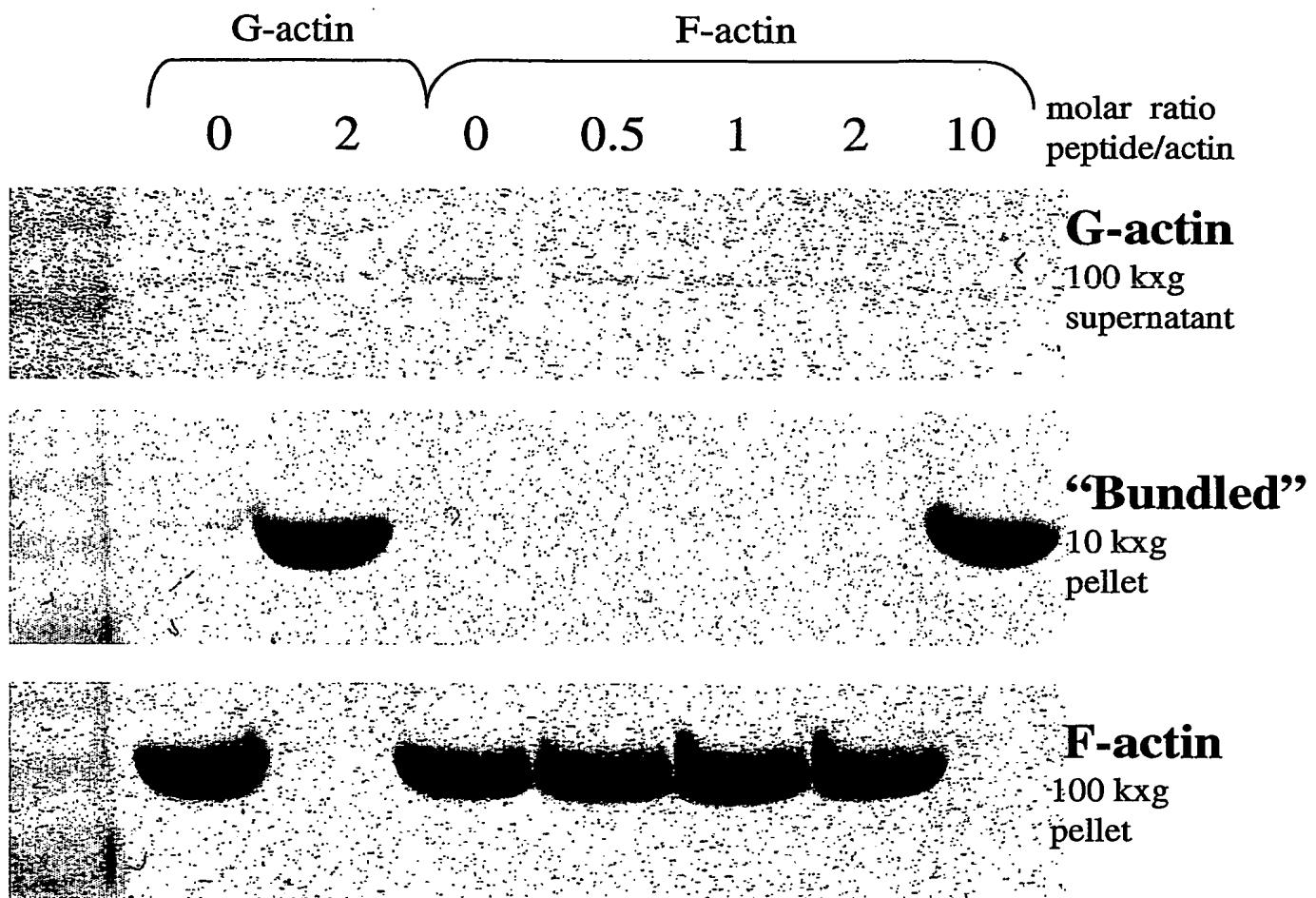
Fig. 6B**Effect of SS2 on polymerized
F-actin in vitro**

Fig. 6C

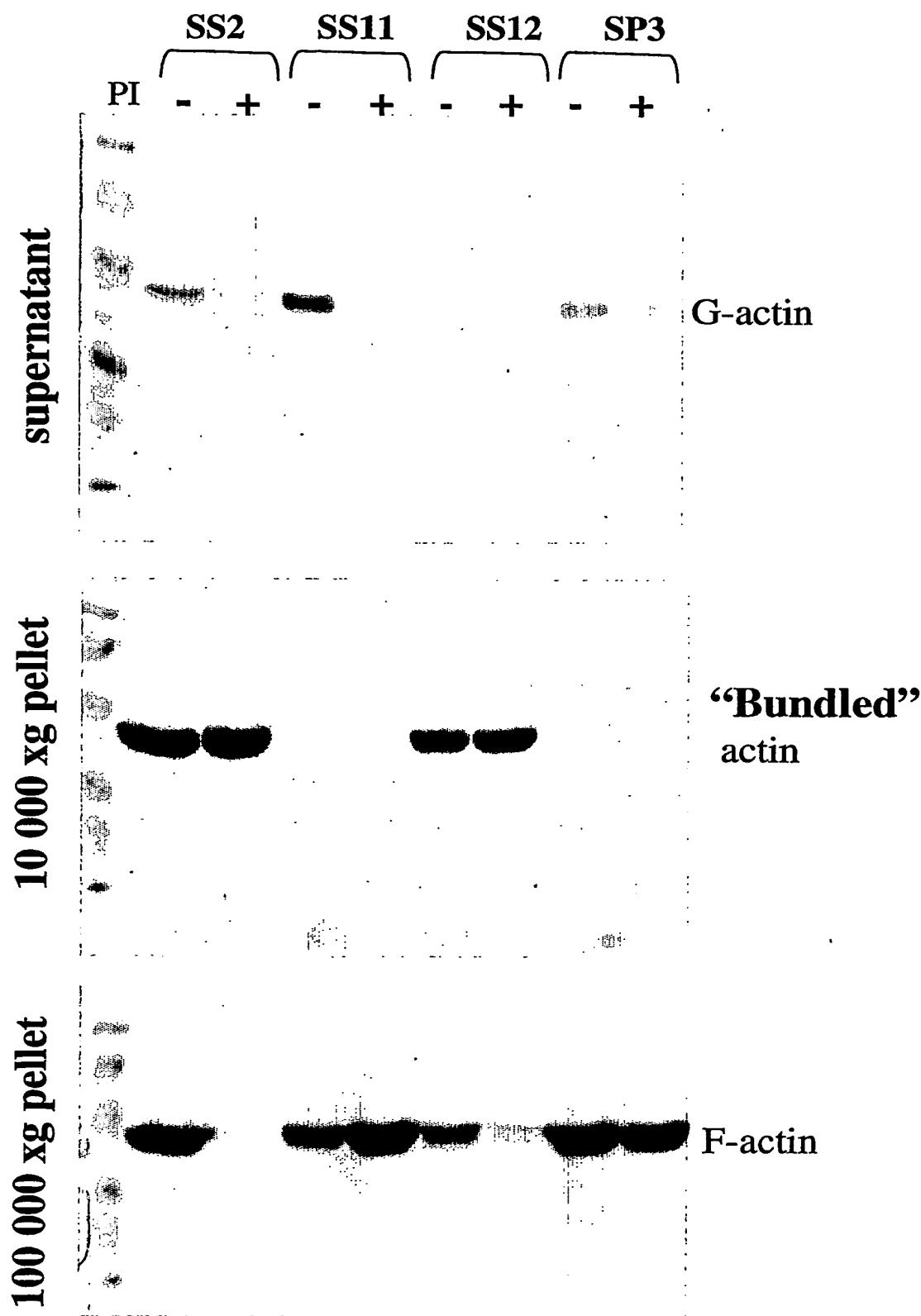


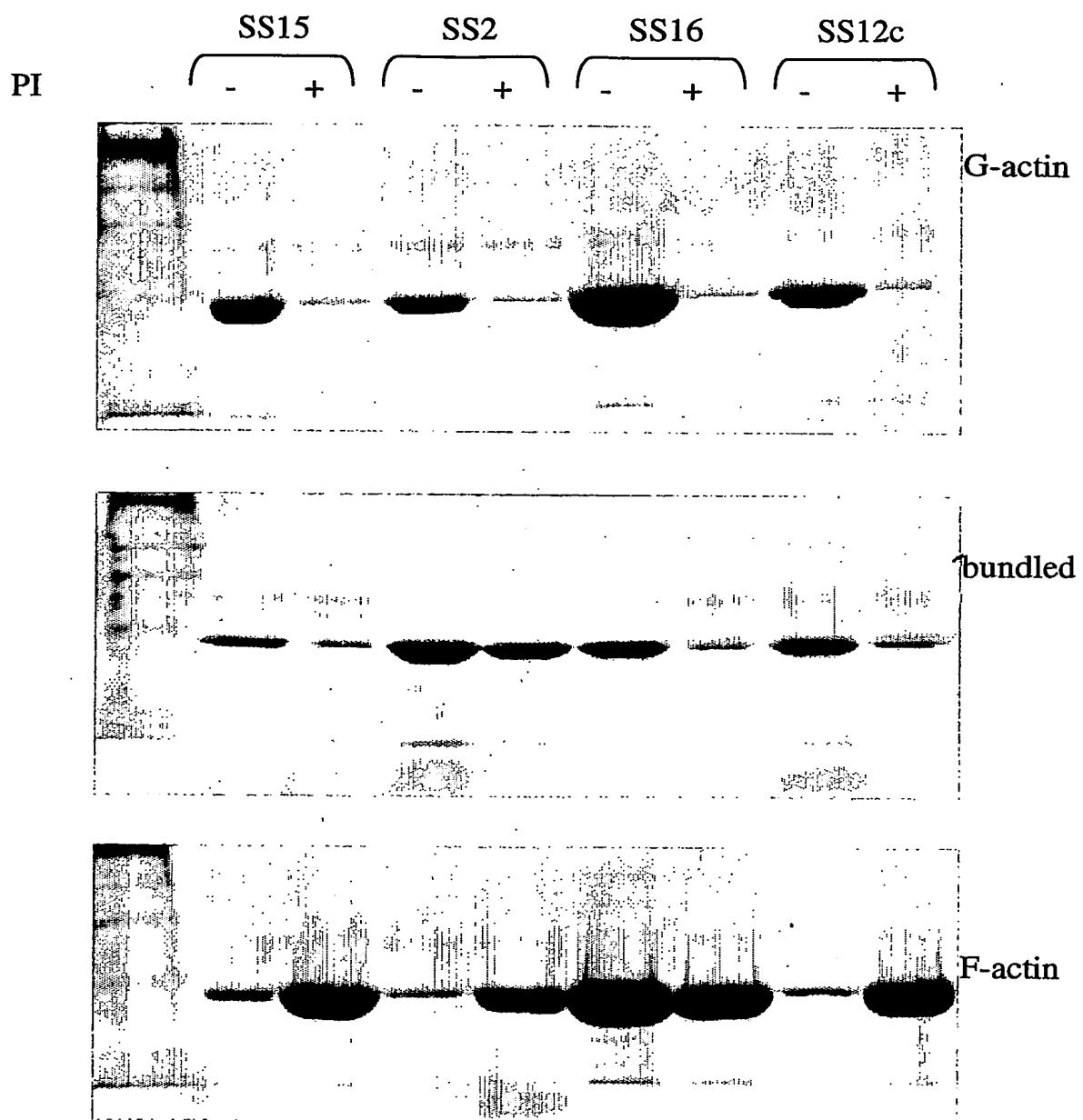
Fig. 6D

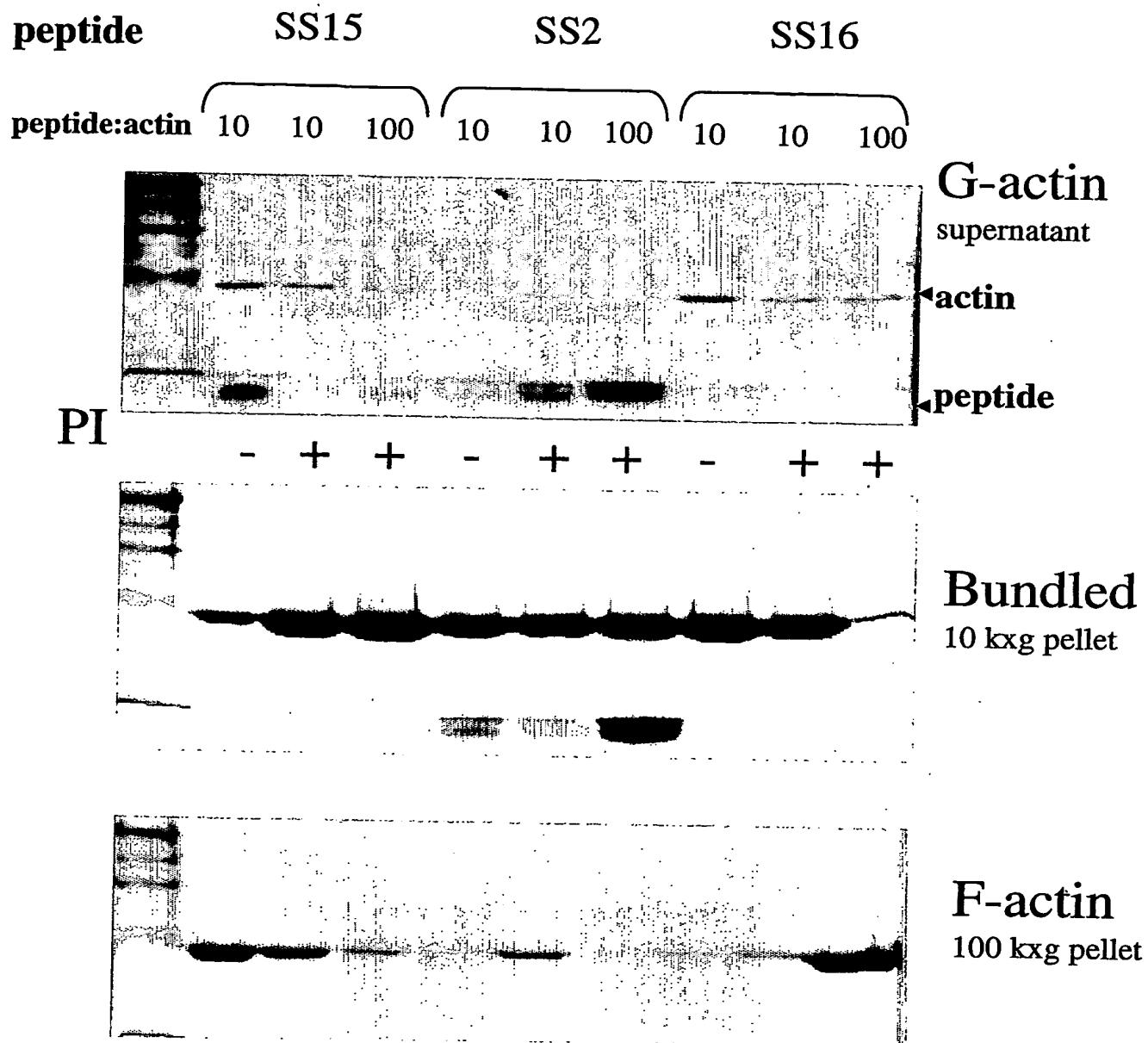
Fig. 6E

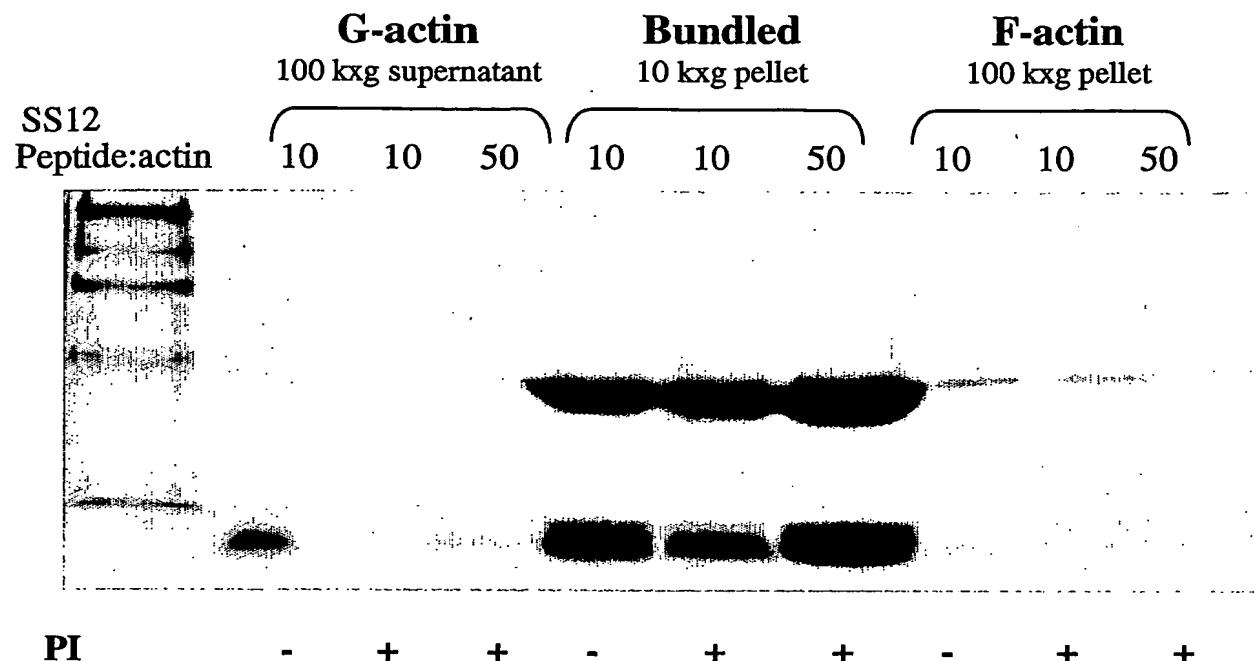
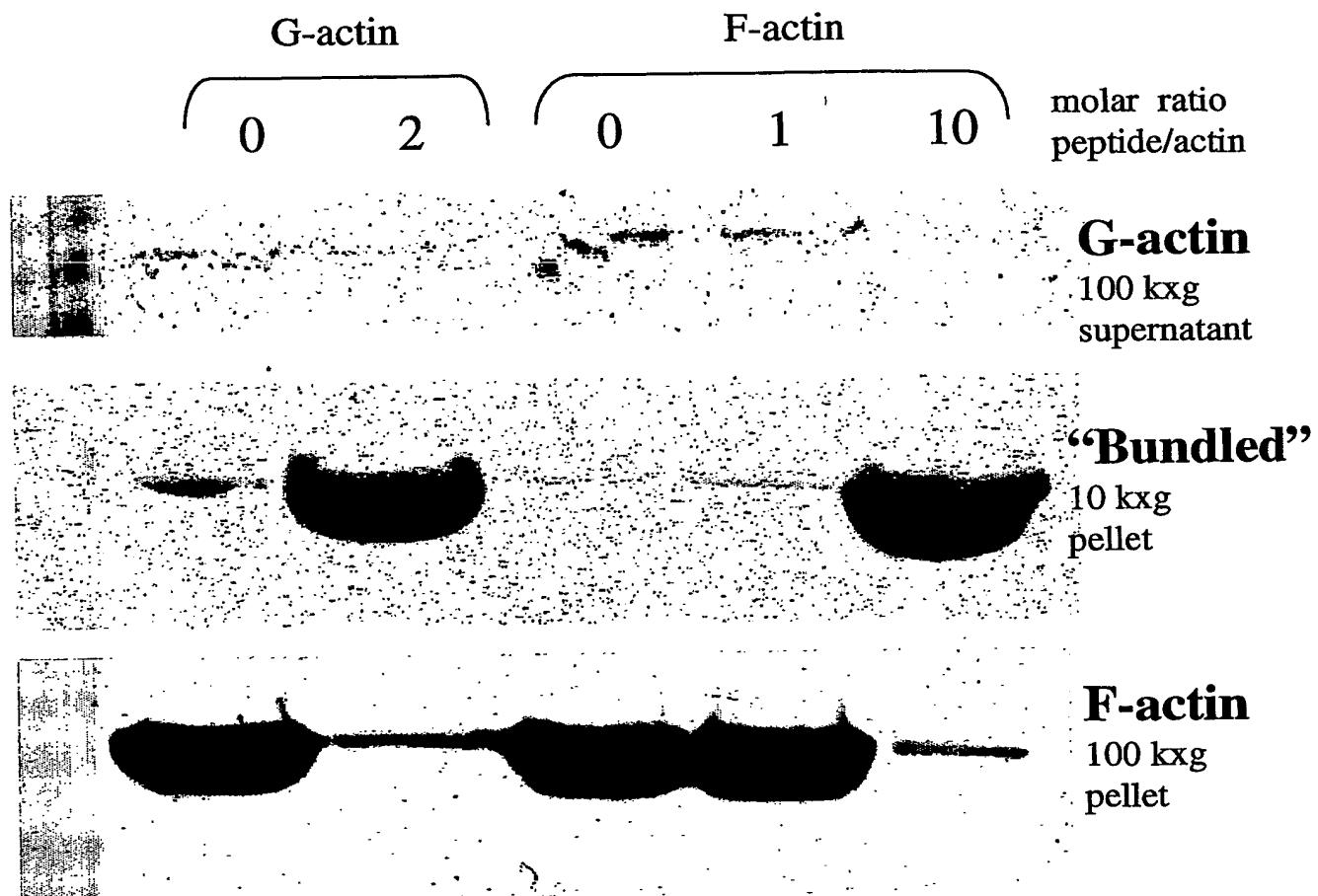
Fig. 6F

Fig. 7

**SS2 bundling activity is not affected
by phalloidin**



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